OK

Depth 6	Contents 7	Reference to last Measurement 8

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498123

erial No First & Final bill

ame of Work Drilling of borewell From providing pipeline to in ward no. 8 Kadigehalli

ame of Contractor of nature of Agency Sri. S. Vinod Kumar, contractor, Bangalore

ate of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Estimate cost :-	Rs. 16.00 lakhs.					
	Job code :-	008-19-000160			P1771		
	work order :-	BBMP/EE/BTP/WO/169/2019-20					Date :- 12/12/2019
	Date of recording :-	28-07-2020					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Carrying out geophysical survey geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S by vertical electrical sounding by adopting guemes or schibergers's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the locating the location of site recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of aquifer proposed						

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work
1	2
	1) Babji layout
	2) Bhadrappa layout
	Kate
	Assistant Executive Engi Kodigehalli Sub Divisi Yelahanka Zone, B.B.M Bangalore
2)	Sinking of 16 hydraulic rig of Capa & abaove in all Stan

NT BOOK

ensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
hysical investigation				
plying sinking				
rough the hand				
ectrical sounding				
er's method, including				
al formation, geophy				
ound waters in the				
ility of the users				
ation of site recomm				
dated formation for				
epth of drilling				
quifers proposed				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498124

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	1) Babji layout	1	–	–	–	1	
	2) Bhadrappa layout	1	–	–	–	1	
						2 nos	
	2) Sinking Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG na above 900 CFM & abaove in all strata including over burden upto 30m.				@ Rs 1686.46/nos		3373=00

Assistant Executive Engineer.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	fixing of casing pipes collars and cap with necessary cutting & threading including Transportation of rig and supporting vehicles, crew charges & cost of consu- mables etc.m complete including yield testing at the final depth with a minimum work in an compres- sion for an hours.						
	a) upto 50.00m depth	1	50.00	-	-	50.00	
	1) Balaji layout	1	50.00	-	-	50.00	
	2) Bodrappa layout	~~2~~	~~50.00~~	-	-	100.00 mtrs	
	@ Rs 274.21/mtr						27421.00
3)	Above 50.00 to 100.00m depth Borewell-1	1	50.00	-	-	50.00	

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency ....
ate of commencement of work .....

Date	Full description, etc, of work
	2
	Borewell-2
4)	Above 100.00 to 150.0 Borewell-1 —11— 2
5)	Abve 150m to 200m Borewell-1 —11— 2

OOK

h	Depth 6	Contents 7	Reference to last Measuremen 8
		with necessary.	
		ation of rig	
		& cost of consu	
		eld testing at	
		ks in en compass	
-	-	50.00	
-	-	50.00	
-	-	100.00 mtrs	
			27421=00
-	-	50.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498125

Serial No. ..... From..... To.....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Borewell - 2	1	50.00	-	-	50.00	
						100.00 mts	
	@ Rs 358.44/mts						35844=00
						50.00	
4)	Above 100.00 to 150.00m depth		50.00	-	-	50.00	
	Borewell - 1	1	50.00	-	-	100.00 mts	
	@ Rs 398.76/mts						39876=00
						50.00	
5)	Above 150m to 200m depth		50.00	-	-	50.00	
	Borewell - 1	1	50.00	-	-	100.00 mts	
	@ 421.17/mts						42117=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Above 200m to 250m depth	1	50.00	–	–	50.00	
	Borewell - 1					50.00	
	—u— 2	1	50.00	–	–	100.00 mts	
			@ Rs	487.48	/mts		48748=00
7)	Above 250m to 300m depth	1	50.00	–	–	50.00	
	Borewell - 1					50.00	
	—1— 2	1	50.00	–	–	100.00 mts	
	Borwell 1		@ Rs	522.43	/mts		52243=00
8)	Above 300 To 350m depth	1	20.00 mts	–	–	20.00 mts	
	Borwell 2						
	Above 300 to 341m depth	1	41.00	–	–	41.00 mts	
						61.00 mts	27869.00
			@ Rs	557.37	/mts	50.004	34000=00

Assistant Executive Engineer,
Division,
B.B.M.P.,

Ltd to Schedule Qty

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	N
1	2	
a)	Supplying of ISI mark casing pipe - grade of ste thick conforming to IS Casing pipe of 5mm thic welded midle steel Tub 1993 and manufactured f in random lengths of 4 -orming to IS 554/1985 the other & with a pla	17

BOOK

ns		Contents	Reference to last Measureme
eadth 5	Depth 6	7	8
–	–	50.00	
		50.00	
		100.00 mts	
–	–		
87.48 mts		50.00	48748=00
–	–	50.00	
–	–	100.00 mts	
22.43 mts			52243=00
–	–	20.00 mts	
–	–	41.00 mts	
		61.00 mts	27869.00
37/mts		50.00 mts	34000=00

edule Qty

M. A. R. 57 (Rule 116)
Measurement Book

No. B
498126

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	a) Supplying of ISI mark 175 mm nominal bore, plain end steel casing pipe - grade of steel fe 410 of wall thickness 5.4mm thick confirming to IS 4270 : 2001 medium black ERW casing pipe of 5mm thick black electic resistance continuous welded midle steel tube material confirming to IS 1387/ 1993 and manufactured from hot rolled steel strip/stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554/1985 one end fixed with a socket & the other & with a plastic protection end						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Borewell 1	9	6.00 mts	–	–	54.00 mts	
	Borewell 2	9	6.00	–	–	54.00 mts	
						108.00 mts	
			@ Rs 1152.75/mts				124497.00
10)	providing & fixing 250mm dia PVC						
	Borewell 1	1	6.00	–	–	6.00 mts	
	Borewell 2	1	3.00	–	–	3.00 mts	
		1	6.00	–	–	6.00 mts	
		1	3.00	–	–	3.00 mts	
						18.00 mts	
			@ Rs 1913.57/mts				34444.26

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
	2
11)	providing 175 mm dia
	Borewell 1
	Borewell 2
12)	providing 175mm

Assistant Executive Engi
Kodigehalli Sub Divis
Zone, B.B.

BOOK

s		Contents	Reference to last Measuremen
dth	Depth 6	7	8
-	-	54.00 mts	
	-	54.00 mts	
		108.00 mts	12447=00
mts			
	-	6.00 mts	
	-	3.00 mts	
	-	6.00 mts	
	-	3.00 mts	
		18.00 mts	3444=00
mts.			-26

M. A. R. 57 (Rule 116)
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No. B

498127

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	i) providing 175 mm dia MS Casing						
	Borewell 1	10	-	-	-	10 nos	
	Bore well 2	10	-	-	-	10 nos	
						20 nos	
		@ Rs	130.5/ no				2610=00
	ii) providing 175mm dia bore cap						
		2	-	-	-	2 nos	
			@ Rs	87.0/mt			174=00

Assistant Executive Engineer.
Kodigehalli Sub Division,
Zone, B.B.M.P..

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
13)	Supplyi & delivery at site brand new texmo / kirloskar / Kabi / Sabar / Atalanta / Calamal make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed & filled with pure drinking water (wet type) squirrel cage submersible induction motor suitable for operation of 3PH, 50 HZ, 380/440 volts AC supply fitted with required accessories such as suction strainers, end guard non return valve etc. complete. The pump and motor shall form an integral unit with all the required fitting	2	–	–	–	2 nos	125499=00
			@ Rs 62749.62/Nos				

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency ...
ate of commencement of work .....

Date	Full description, etc, of work
	2
14)	providing & fixing G steel tubes (medium c nominal bore with to be measured & (all materials, labo testing. C Borewell 1 Borewell 2

OK

Depth 6	Contents 7	Reference to last Measurement 8
ne / Innoval / Kubi /		
vertical instal		
f single stage		
ans of stainless		
ed totally		
(wet type)		
itable for operat		
fitted with rag		
end guard non		
ator shall form		
g		
—	2 nos	
2 / Nos		125499=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498128

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
14)	providing & fixing to wall Celling & floor glavanised / mild steel tubes (medium grade 1.27 kg/mt) B class 50mm dia nominal bore with all fittings [earth work in Trenches to be measured & paid for seperately) including cost of all materials, labour charges, Hire of equipments & testing. C						
	Borewell 1	50	6.00	—	—	300.00	
	Borewell 2	50	6.00	—	—	300.00	
		@ Rs	472.17/mtr			600.00 mtr	283302=00

C

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15)	Supply & drawing 3 core flat sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductors conforming to table 3 class 5 of IS 8130-1984 & virgin grade pvc insulation & sheathed suitable for working voltage upto 1100 volts as per 1x3x4 sq/mm of 56 strands 0.3mm dia group A (page no. 12. item no 2.10.3)						
	Borewell 1 & 2	2x19	30.00	-	-	1140.00	
	Bor	2x15	-	-	-	30.00	
						1170.00mts	
						1160mts	190437.00

@ Rs 164.17/mts

rial No. .....
me of Work .....
me of Contractor of nature of A
te of commencement of work ..

ate	Full description, etc, of w
	2
16)	Labour Charges pumpset along length Borewell Borewell
17)	Supplying & fix cp not less the end provided for

epth 6	Contents 7	Reference to last Measureme 8
ssible pump		
de copper		
to table 3		
e insulation		
1100 volts		
a group A		
	1140.00	
	30.00	
	1170.00 mts	
	1160 mts	190437=00

M. A. R. 57 (Rule 116)
Measurement Book

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498129

rial No. ..... From..... To.....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(16)	Labour Charges for erection of new repaired submersible pumpset along with gi pipes including transportation each length						
	Borewell 1	1	50.00	–	–	50.00	
	Borewell 2	1	50.00	–	–	50.00	
						100 mts	
			@ Rs 76.56/mts				7656=00
(17)	Supplying & fixing 20" x 20" x 2.5 polished wood board made up not less than 15mm thick plank with front plank one end provided for olding at other end fixing the same						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of the value using through bolts & nuts						
		2	-	-	-	2nos	525.00
		@ Rs 262.74 / Nos					
	18) Supplying of 11 KV LTUG cable having aluminium cond-uctor PVC insulated extruded inner sheathed, galvan-ized, steel strip (except 2C X 10 Sq.mm wire armoured) confir-ming to IS3975:1990 (No. of strip indicated in GTP) & extruded PVC outer sheathed armored cable with speci-fied IS-1554. part-1:1988 & conforming to GTP of group A 4 core 16 Sqmm						
		2	35.00	-	-	70.00mts	

ate	Full description, etc, of work
	2
19)	Labour charges fo-ting trench @1 p required, in exis
20)	Digging of trenc trench to the s etc

T BOOK

sions		Contents	Reference to last Measureme
Breadth 5	Depth 6	7	8
& nuts			
—	—	2nos	
4 / Nos			525.00#
ing aluminium cond			
sheathed, galvan &			
ore armoured) conf is			
ndicated in GTP) &			
ed cable with speci			
ng to GTP of group			
—	—	70.00mts	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498130

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	@ Rs 122.15/mts						8550.50
19)	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/Stonewage pipe/on wall/on poles as required. in existing trench/duct						
	Qty vide item no 18 is					70.00mts	
	@ Rs 9.4/mts						658.00
20)	Digging of trenches of 0.6 x 0.5m wide refilled the trench to the required ground level & consolidating etc						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	–	–	60.00 mts	
		@ Rs 101.79/ mts					6107=00
21)	Supplying & fixing class A (medium duty-) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain OD -ssing with necessary clamping arrangements of UG cable of 1.1 KV class 40mm						
		2	3.00	–	–	6.00 mts	
		@ Rs 300.15/ mts					1801=00
22)	Supplying & fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary						

rial No. .....
me of Work .....
me of Contractor of nature of Agency
te of commencement of work .....

ate	Full description, etc, of work
	2
	bitumin insulating clamps, bolts nuts
23)	Supplying & fixing conduits, I.C cutouts using 40mm dia 2.90 a pit.. The pit should & charcoal 150mm

OOK

	Depth 6	Contents 7	Reference to last Measureme 8
	–	60.00 mts	6107=00
nts			
-) GI pipe of wall			
e wall / drain 000			
nents of UG Cable			
	–	6.00 mts	
ts			1801=00
ne ads suitable			
necessary			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498131

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	bitumin insulating Compound Complete with Terminals, clamps, bolts nuts & washers etc	2	–	–	–	2 nos.	487=00
	@ Rs 243.6/No						
23)	Supplying & fixing wiring earth electrode for grounding conduits, M.C cutouts & other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mts long buried in a pit. The pit should be filled with equal proportion of salt & charcoal 150mm all round the pipe to Complete Depth						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	the connection from the pipe to the conduit etc is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers & Check nuts etc. the pipe shall have through holes of 12.2 mm dia	2	–	–	–	2 nos	
		@ Rs 2372.49/nos					4745=00
24)	Supplying & fixing of poceline fuse channel with ceitals on existing wooden panel using necessary nuts, bolts & washers.	2	3			6 each	
		@ Rs 313.2/each					1879=00

rial No. .....
me of Work .....
me of Contractor of nature of Agency .
te of commencement of work .....

ate	Full description, etc, of work
	2
25)	Supplying & fixing 1.1 kV etc.,
26)	Supplying & fixing MCB distribution bo and 'C' Type curve with short circuit wiring as required

T BOOK

nsions		Contents	Reference to last Measureme
Breadth 5	Depth 6	7	8
Conduit etc is to be as per ISI Specificatio olts, nuts, washers & through holes of 12.2			
–	–	2nos	
2.49/nos			4745=00
Channel with Cutouts ory nuts, bolts &			
		6 each	
.2/each			1879=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498132

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
25)	Supplying & fixing of heavy duty glands for 1.1 kV etc.,	2	6.	–	–	12 each	
		@ Rs 74.82/each					898=00
26)	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type Curve, indicated ON/OFF energy class-3 with short circuit breaking capacity of 10K & complete wiring as required confirming to IEC 60898.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	–	–	–	2 each	
		@ Rs 1345.89 /each					2692=00
27)	Fabricating supplying & mounting MS box made out 14SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland & box shall be finished with 2 coats of red oxide primer paint & finally finished with approved colours enameled metal paint etc.,						

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work
	2
28)	providing & fixing ir on value verticle type all materials, labour leads. C

OK

Depth 6	Contents 7	Reference to last Measurement 8
–	2each	2692=00
ch		
d made out		
f, fully weather		
pation, provided		
tamper proof		
clamps with		
d & bar shall		
primer paint		
enamelled		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498133

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		4	220.00	60.00		52800	
		2	450.00	25.00		22500	
						75300 Sqcm	21837=00
			@ Rs 0.29	/Sqcm			
28)	providing & fixing in position 50mm nominal bore non-rete-						
	-rn value verticle type of approved make including cost of						
	all materials, labour & Hire of equipments with all						
	leads. C	2	–	–	–	2 nos	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		@ Rs 1226.53 / No.					2453=00
29)	providing MPICP waste - cations & fixing them in position as per - uding cost of materials Spat etc.	Unions Conforming of ISI specifi fixtures & conveyance to work					
		2	2	–	–	4 each	
		@ Rs 193.66 / each					775=00
30)	Gate valve 50mm bore PWD SR	gun metal		p. No. xxiii		Sl No 673	
		2	3	–	–	6 each	
		@ Rs 1216.53 / each					7299=00

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Nur
	2	
3)	Supplying & delivery at s sun-shine / Ashirth / GI cont - bined energy meter - cum - ke combined energy co size 600 x 400 x 200 mm vermin & water proof - able doors suitable fo walls, AC supply with device with a key t the doors, canopy apron	

NT BOOK

ensions		Contents	Reference to last Measuremen
Breadth 5	Depth 6	7	8
53 / No.			2453=00
ooming of ISI specifi			
per directions inclu			
conveyance to work			
—	—	4 each	
66/each			775=00
P.No.XXIII		Sl No 673	
—	—	6 each	
53/each			7299=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498134

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6	7	8
3)	Supplying & delivery at site board mounted Sun-shine/Adarsh/GIS controls best indigenous make Com- bined energy meter- cum-control best indigenous ma- ke combined energy control panel board unit of size 600 x 400 x 200 mm minimum mechanically strong vermin & water proof. the unit shall have two detach- able doors suitable for operation on 3ph. 50 HZ, 380/440 volts, AC supply with spring loaded latch. locking device with a key subs should be provided inside the door, canopy apron & louvers ventilators shall						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	be provided the combined energy meter cum-Con- -trol panel board unit suitable for operation, the panel board shall be fabricated on single unit in the above component for suitable pumpset.1						
		2	–	–	–	2 Nos	17400=00
			@ Rs. 8700.0/No				
32)	Assistant Executive Engineer Gadigeshwari Sub Division Yelahanka Zone, B.B.M.P. Bangalore. Earth work excavation for foundation of buildings, culverts water supply, sanitary lines & electrical conduits either in pits or in trenches 1.5m & above in width, in ordi- -nary soil, exceeding 1.5m in depth including dressing the bottom & sides of pits & trenches stacking						

Date	Full description, etc, of work
	2
	the excavated soil all lead upto 50m Qty as pe 498180
33)	Sand filling in & technical specifi Qty as p 498

rial No. .....
me of Work .....
me of Contractor of nature of Agency
te of commencement of work .....

OOK

dth	Depth 6	Contents 7	Reference to last Measureme 8
		metes cum - Con operation, the ssible unit in lemplet.	
		2 Nos	
		-0/No	17400=00
		f buildings, culverts l conduits either m width, in ordi uding dressing nches stacking	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498135

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods. Qty as per pre measurement vide page no 498180-80, of this MB is @ Rs 229.63/m³					40.50 m³	9300=00
33)	Sand filling in foundation trenches as per drawing & technical specification mearn. Qty as per pre measurement vide page no 498181 of this MB is @ Rs. 1899.73/m³					8.10 m³	15388=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
34)	providing & fixing to wall, ceiling & floors high density polyethylene pipes 6.00 kgf/sq.cms working pressure 50mm outside diameter with special flange, compress -ion type fittings, wall clips making good the wall, ceili -ng & floor, including cost of all materials, labour charges, hire of equipments & testing.						
	Qty as per pre measurement vide page no 49818/1 of this MB.					90.00mts	
	@ Rs 216.72/mtrs						Rs 19505=00
35)	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each						

rial No. .....
me of Work .....
me of Contractor of nature of A
te of commencement of work ..

ate	Full description, etc, of
	2
	deposited layer upto 5cm and Qty v
36)	providing, layin -egate to wet m the materials wi Carriage of m uniform layers

OOK

h	Depth 6	Contents 7	Reference to last Measurem 8
		oor high density ing pressure tamper, compress nd the wall. Celi aterials, labours ent vide page 90.00 mts	₹505=00
		s limes, cables in mpacting each	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498136

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	deposited layer by ramming after watering upto 5cm and lift upto 1.5m including cost of all labour by vide item no 33-34 as @ Rs 70.09/m³					with lead 32.40 m³	2271=00
36)	providing, laying, spreading & compacting graded stone aggregate to wet mix macadam specification including premixing the materials with water at OMC in mechanical mix plant, Carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	prepared surface & compacting with Vibratory rollers to achieve the desired density.						
	Qty as per pre measurement vide page no 498181 of this MB is					8.1 m^3	
	@ Rs 1741.11 /m^3						14103=00
37)	Cleaning the existing WBM road surface including removing of binding materials & other foreign matter with wire brushes & small picks, sweeping with brooms & soft brushes & finally dusting with old gunny bags & /or compressed air to receive bituminous treatement including cost of all materials, labour, hire of machineries, curing.						

ial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	
	2	
	Qty as per 498182	
38)	providing & applying P	
	-rosity like cement sta	
	prepared surface with	
	tankers fitted with SPS	
	surface) including cost	

T BOOK

sions		Contents	Reference to last Measurem
Breadth 5	Depth 6	7	8
		Vibratory rollers	
t vide page no 49818)		8.1/m³	1403=00
1/m³			
rface including rem reign matter with with brooms or soft gunny bags & for com element including machineries, curing			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498137

rial No. ..... From..... To.....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty as per pse measurement vide page no 498182 of this MB is @ Rs. 19.37/m².					54.00m²	1046=00
38)	providing & applying primer coat for surfaces of medium po rosity like cement stabilized soil base @ 1.0 kg/sq.mt over prepared surface with S.S. bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all materials labour Hire of machine						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty as per vide item No. 37 is @ Rs 40.58 /m²					54.00 m²	2191 = 00
39)	providing & laying bituminous macadum on prepared surface using Crushed aggregates as per design mix formula for base / binding course including loading of aggregates with FE loader, hot mixing of stone aggregat -es & bitumen in hotd mix plant, transporting the mix -ed material in Tipper to paver & laying mixed mates -ials with paver finisher to the required level & grade, rolling by power rollers to achive the desired density, but excluding cost of prime / tack coat						

rial No. .....
me of Work .....
me of Contractor of nature of Agency ..
te of commencement of work .....

ate	Full description, etc, of work
	2
	including lead, lift & machineries Qty as 4981
40)	providing & laying Crushed aggregates bituminous binder

BOOK

ns Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
37 is		54.00 m2	2191.50
m2			
um on prepared			
s per design mix			
cluding loading of			
of stone aggregat			
sporting the mix			
ying mixed mates			
ished level &			
hile the desired			
ne/track cost			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498138

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	including lead, lift & cost of all materials, labour, Hire of machineries						
	Qty as per pre measurement vide page no 498182/1 of this MB is @ Rs 5369.97/m3					2.7 m3	14499.00
40)	providing & laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder & filler, transporting the hot mix						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to work site laying with a pavers finishes to the requi- red grade, level & alignment rolling with smooth whee- led, Vibratory & tandem rollers to achieve the desired.						
	Bore well 1	1	30.00	0.60	0.04	0.72	
		1	15.5	0.60	0.04	0.37	
	Bore well 2	1	30.00	0.60	0.04	0.72	
		1	15.2	0.60	0.04	0.36	
						2.18 m3	
						2.16 m3	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M. A
M

rial No. .....
me of Work .....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Numbe
	2	3
		(a)

Verified

BOOK

ions		Contents	Reference to last Measurem
Breadth 5	Depth 6	7	8
finishes to the requi			
g with smooth surf			
to achieve the			
0·60	0·04	0·72	
0·60	0·04	0·37	
0·60	0·04	0·72	
0·60	0·04	0·36	
		2·18 m3	2·17
		2·16 m3	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498139

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		@	Rs 6714·54/m3				14503=00
			Sub total				1217023=00
			GST @12%				146043=00
			Bescom deposit				26000=00
			Grand total				1389066=00
							1389000.00

Verified
4/08
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CERTIFICATE:-						
	1) The Contractor removed all the debris from work spot.						
	2) The Contractor done the work satisfactorily.						
	3) The work comes under B.B.M.P limit.						
	JE W.O						
	Assistant Executive Engineer Kadigehalli Yelahanka Division, B.B.M.P., Bangalore.						

Rial No. .....
me of Work .....
me of Contractor of nature of Agency
te of commencement of work .....

ate	Full description, etc, of work
	2
	4th Main Road
	Bhadrappa Layo
	JE3

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

deberis from work spot.
tisfactorly.
p limit.

Exe Engineer
Division,
B.B.M.P.,
Ba. ore.

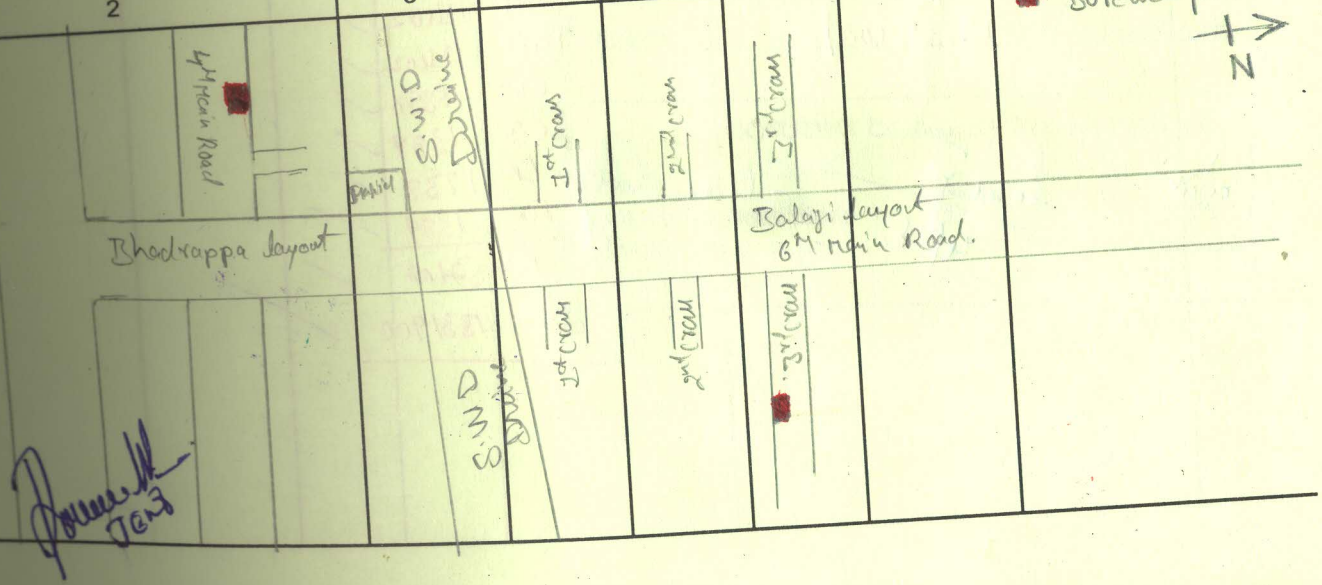
M. A. R. 57 (Rule 116)
Measurement Book

No. B

498140

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work ..... location of Borewell Sketch

ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
							Borewell points



MEASUREMENT BOOK

1st & final

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	P1802						
	ಲೆಕ್ಕಶೀರ್ಷಿಕೆ Water Supply / ನೀರು ಸರಬರಾಜು ರಡಿ		TTB	1389000			
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 1389000/- ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ.		I+	13890			
	ಇದರಲ್ಲಿ ರೂ. 57100/- ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ		Cust	12402			
	ಮಾಡಿಕೊಂಡು ರೂ 13,31,900/- ಗಳನ್ನು		Cust	12402			
	FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ		CWP	13890			
	ವಿಷಯ ನಿರ್ವಾಹಕರು ಲೆಕ್ಕಾಧಿಕಾರಿಗಳು ಬೃಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು		CR	1389			
	ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು		LR	1738			
			Fine	1389			
			Ded	57100			
			Chrs	1331900			

rial No. .....
me of Work .....
me of Contractor of nature of Agency
te of commencement of work .....

ate	Full description, etc, of work
	2